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**Title:** EP0779611B1: Multiple zone data storage system[German][French]

**Derwent Title:** Multiple zone data storage system for magnetic data recording - has three zones with rough, intermediate and smooth textures respectively, roughest zone preventing stiction between slider at rest and disk, and smoothest zone being used for data recording [Derwent Record]

**Country:** EP European Patent Office (EPO)

**Kind:** B1 Patent (See also: EP0779611A2, EP0779611A3)

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**Published / Filed:** 2004-02-25 / 1996-11-18

**Application Number:** EP1996000308310

**IPC Code:** G11B 5/54;

**ECLA Code:** G11B5/54; G11B5/82;

**Priority Number:** 1995-12-13 US1995000571666

**Abstract:** [From equivalent EP0779611A2] A data storage system has a disk having a first, second and third zone. The first zone has rough texturing to prevent stiction between a slider at rest and the disk. The second zone has intermediate texturing to prevent stiction when a moving slider is in contact with the disk. The third zone has a smooth texture and is used for data recording. A control unit moves the slider between the zones as appropriate on power up and power down of the system. The system has an actuator latch having a bias device. The bias device allows the slider to be positioned between the first and second zones by selective energizing of the actuator while in the latched position.

**Attorney, Agent or Firm:** Calderbank, Thomas Roger ;

**INPADOC Legal Status:** [Show legal status actions](#)

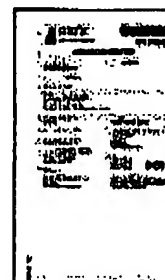
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**Designated Country:** DE FR GB

**Family:** [Show known family members \(at least 11\)](#)

**Description:** [Expand full description](#) [From equivalent EP0779611A3]

+ [Background of the invention](#)  
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First Claim:  
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1. A data storage system comprising:

- a data storage medium having a first (100), second (102) and third (104) zone, the first zone having a rough texture surface, the second zone having an intermediate texture surface and the third zone having a smooth texture surface;
- a transducer assembly (30) positioned proximate the data storage medium;
- a movement device (14,16) for moving the data storage medium relative to the transducer assembly; and
- a positioning device (36) for selectively positioning the transducer assembly proximate the first, second and third zones;

characterised in that the first and second zones each comprise two concentric ring shaped areas wherein the ring shaped areas of the first zone are interleaved with the ring shaped areas of the second zone.  
[German] [French]

Other Abstract Info: None



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